

## Anti-MHC Class I [OX-27] Standard Size Ab00575-8.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rat IgG2b, Fc Silent™, Kappa

**Clone Number:** OX-27

**Alternative Name(s) of Target:** Major Histocompatibility Complex 1; MRC OX27; OX27

**UniProt Accession Number of Target Protein:**

**Published Application(s):** IP, FC

**Published Species Reactivity:** Rat

**Immunogen:** This antibody was prepared by immunizing BALB/c mice with rat phytohemagglutinin blasts.

**Specificity:** This antibody recognizes a polymorphic determinant (c haplotype) of rat Class I MHC Antigen (RT-1A).

**Application Notes:** This antibody binds to rat MHC Class I, and has been used to show that, in an in vivo rat model, antibodies against MHC class I antigens from stored blood may precipitate transfusion-related acute lung injury (Kelher, 2009).

**Antibody First Published in:** Jeffries et al. Authentic T helper CD4 (W3/25) antigen on rat peritoneal macrophages. J Exp Med. 1985 Jul 1;162(1):117-27. [PMID:3159821](#)

**Note on publication:** Describes the original use of this antibody in immunoprecipitations to generate an MHC I precipitate for use in comparative SDS page analysis.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.